What is claimed is:

- 1. A method for designing filters that approximates the circularly symmetric frequency response achievable using a non-separable filter comprising:
 - (a) selecting a cut-off frequency and designing therefrom a 1-D low pass filter **LP** such that: **LP** = $[X_{-n}, X_{-(n-1)}, ... X_0, ... X_{n-1}, X_n];$
 - (b) obtaining a 2-D filter *LPP* by performing the operation: LP* X LP wherein LP* is a column vector having the same entries as LP and *LPP* having dimensions given by: {2n+1, 2n+1} and generating a 2-D countour plot therefor;
 - (c) designing a 1-D high pass filter **HP** such that: $\mathbf{HP} = [Y_{-m}, Y_{-(m-1)}, \dots Y_0, \dots Y_{m-1}, Y_m];$
 - (d) obtaining a 2-D filter *HPP* by performing the operation: HP* X HP wherein HP* is a column vector having the same entries as HP and *HPP* having dimensions: {2m+1, 2m+1} and obtaining a 2-D contour plot therefor;
 - (e) repeating (c) through (d) until the 2-D contour plot of *HPP* overlaps the 2-D countour plot of *LPP*;
 - (f) generating a 2-D filter ONE having the dimensions of that of HPP with the only non-zero entry of value 1 located at the center of ONE;
 - (g) creating matrix *HPPinv* by subtracting *HPP* from *ONE*;
 - (h) convolving *LPP* with *HPPinv* to obtain *DSCRN* having dimensions: {2m+2n+1, 2m+2n+1} and obtaining a 2-D contour plot therefor; and
 - (i) repeating (a) through (h) until, by an examination of the 2-D contour plot of *DSCRN*, an approximation to a desired circular symmetry is achieved.

- 2. A method as in **claim 1**, wherein the dimensions of filters **LPP** & **HPP** are such that the processing by a target media processor, Very Long Instruction Word (VLIW) processor, or Digital Signal Processor (DSP) is optimized.
- A method as in claim 1, wherein one would descreen not by using the non-separable filer DSCRN but by first applying the separable filter LPP and saving that result as, for example, video_1.
- 4. A method as in **claim 3**, further comprising applying the **HPP** filter to video_1 and saving that output as, for example, video_2.
- 5. A method as in **claim 4**, further comprising subtracting video_2 from video_1 to yield descreened output.
- 6. A method as in **claim 5**, wherein **DSCRN** is applied to image data to determine whether the generated result accomplished an intended result.